

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference NT05005PCT--	FOR FURTHER ACTION	See item 4 below
International application No. PCT/JP2005/020026	International filing date (<i>day/month/year</i>) 31 October 2005 (31.10.2005)	Priority date (<i>day/month/year</i>) 13 December 2004 (13.12.2004)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant NIPPON TELEGRAPH AND TELEPHONE CORPORATION		

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).																								
2.	<p>This REPORT consists of a total of 6 sheets, including this cover sheet.</p> <p>In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.</p>																								
3.	<p>This report contains indications relating to the following items:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%; text-align: center;"><input checked="" type="checkbox"/></td> <td style="width: 35%;">Box No. I</td> <td style="width: 50%;">Basis of the report</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Box No. II</td> <td>Priority</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Box No. III</td> <td>Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Box No. IV</td> <td>Lack of unity of invention</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>Box No. V</td> <td>Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>Box No. VI</td> <td>Certain documents cited</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Box No. VII</td> <td>Certain defects in the international application</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Box No. VIII</td> <td>Certain observations on the international application</td> </tr> </table>	<input checked="" type="checkbox"/>	Box No. I	Basis of the report	<input type="checkbox"/>	Box No. II	Priority	<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	<input type="checkbox"/>	Box No. IV	Lack of unity of invention	<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	<input checked="" type="checkbox"/>	Box No. VI	Certain documents cited	<input type="checkbox"/>	Box No. VII	Certain defects in the international application	<input type="checkbox"/>	Box No. VIII	Certain observations on the international application
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4.	The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).																								

<p>The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland</p> <p>Facsimile No. +41 22 338 82 70</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Date of issuance of this report 13 June 2007 (13.06.2007)</td> </tr> <tr> <td style="padding: 2px;">Authorized officer Yoshiko Kuwahara e-mail: pt07.pct@wipo.int</td> </tr> </table>	Date of issuance of this report 13 June 2007 (13.06.2007)	Authorized officer Yoshiko Kuwahara e-mail: pt07.pct@wipo.int
Date of issuance of this report 13 June 2007 (13.06.2007)			
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PATENT COOPERATION TREATY

TRANSLATION

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing
(day/month/year)

Applicant's or agent's file reference

NT05005PCT--

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/JP2005/020026

International filing date (day/month/year)

31.10.2005

Priority date (day/month/year)

13.12.2004

International Patent Classification (IPC) or both national classification and IPC

Applicant

NIPPON TELEGRAPH AND TELEPHONE CORPORATION

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☒ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP

Authorized officer

Facsimile No.

Telephone No.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/020026

Box No. I

Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.



This opinion has been established on the basis of a translation from the original language into the following language

_____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

☐

a sequence listing

☐

table(s) related to the sequence listing

b. format of material

☐

in written format

☐

in computer readable form

c. time of filing/furnishing

☐

contained in the international application as filed.

☐

filed together with the international application in computer readable form.

☐

furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/JP2005/020026

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1.	Statement		
	Novelty (N)	Claims <u>4, 8, 12</u>	YES
		Claims <u>1-3, 5-7, 9-11</u>	NO
	Inventive step (IS)	Claims _____	YES
		Claims <u>1-12</u>	NO
	Industrial applicability (IA)	Claims <u>1-12</u>	YES
		Claims _____	NO
2.	Citations and explanations:		
	<p>Document 1: JP, 2001-22499, A (Nippon Telegraph and Telephone Corporation), 26 January, 2001 (26.01.01), the claims, paragraphs [0012] and [0081]-[0083], Figs. 1 and 9 (Family: none)</p> <p>Document 2: Yuriko Suzuki, Minoru Kobayashi, Satoshi Ishibashi, "Mukosoku na Interface o Mezashita Fuatsu ni yoru Rikikaku Teiji Hoshiki", Transactions of Information Processing Society of Japan, Vol. 43, No. 12, 15 December, 2002 (15.12.02), pages 3643-3652</p> <p>Claims 1, 5 and 9</p> <p>The subject matters of claims 1, 5 and 9 do not appear to be novel in view of document 1 or 2 cited in the ISR.</p> <p>Document 1 describes that a wind pressure is given to a flared or concave blast receiving section to present a force sense to an operator.</p> <p>Document 2 describes that a wind pressure is given to a flat, concave or convex wind receiving vessel to present a force sense to an operator.</p> <p>It is apparent that the flared, concave or convex blast receiving section (wind receiving vessel) is inclined with respect to the axis line of the blast receiving section as going from the center toward the outside.</p> <p>Further, document 2 also describes that when the direction of the jetting of air is inclined with respect to the wind receiving vessel, a force including a vertical component is produced in the direction of the jetting of air. When the flat wind receiving vessel is attached aslant, the wind receiving vessel is inclined with respect to the axis line of the wind receiving vessel as going from the center toward the outside.</p> <p>Claims 2, 6 and 10</p> <p>The subject matters of claims 2, 6 and 10 do not appear to be novel in view of document 1 cited in the ISR.</p> <p>Document 1 describes that the area, angle or shape of the blast receiving section is controlled to control the wind pressure received.</p> <p>Claims 3, 7 and 11</p> <p>The subject matters of claims 3, 7 and 11 do not appear to be novel in view of document 1 or 2 cited in the ISR.</p> <p>Documents 1 and 2 describe that a virtual space including a virtual object is displayed.</p> <p>Claims 4, 8 and 12</p> <p>The subject matters of claims 4, 8 and 12 do not appear to be novel in view of document 2 cited in the ISR.</p> <p>Document 2 describes that nozzles for jetting air are arranged in a matrix form, and air jetted</p>		

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/020026

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement

from each nozzle is controlled to present a desired force sense.

It is a matter of design variation for a person skilled in the art to select nozzles with which a difference in angle between the direction of extending from the nozzle toward the center of the wind receiving vessel and the direction of a force to be given to the wind receiving vessel is equal to or less than a predetermined value.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/020026

Box No. VI Certain documents cited

1. Certain published documents (Rule 43bis.1 and 70.10)

Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
JP 2005-4580 A [P, X]	06.01.2005	13.06.2003	

2. Non-written disclosures (Rule 43bis.1 and 70.9)

Kind of non-written disclosure	Date of non-written disclosure (day/month/year)	Date of written disclosure referring to non-written disclosure (day/month/year)

PATENT COOPERATION TREATY

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The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Date of issuance of this report 13 June 2007 (13.06.2007)
	Authorized officer Yoshiko Kuwahara e-mail: pt07.pct@wipo.int

特許協力条約

発信人 日本国特許庁（国際調査機関）

REC'D 02 FEB 2006

WIPO

PCT

代理人

伊東 忠彦

様

あて名

〒150-6032

日本国東京都渋谷区恵比寿4丁目20番3号 恵比寿ガーデンプレイスタワー32階

PCT
国際調査機関の見解書
(法施行規則第40条の2)
(PCT規則43の2.1)

発送日
(日.月.年)

31.01.2006

出願人又は代理人

の書類記号 NT05005PCT-

今後の手続きについては、下記2を参照すること。

国際出願番号

PCT/JP2005/020026

国際出願日

(日.月.年) 31.10.2005

優先日

(日.月.年) 13.12.2004

国際特許分類 (IPC) Int.Cl. G06F3/01 (2006.01)

出願人 (氏名又は名称)

日本電信電話株式会社

1. この見解書は次の内容を含む。

- ☒ 第I欄 見解の基礎
- ☐ 第II欄 優先権
- ☐ 第III欄 新規性、進歩性又は産業上の利用可能性についての見解の不作成
- ☐ 第IV欄 発明の単一性の欠如
- ☒ 第V欄 PCT規則43の2.1(a)(i)に規定する新規性、進歩性又は産業上の利用可能性についての見解、それを裏付けるための文献及び説明
- ☒ 第VI欄 ある種の引用文献
- ☐ 第VII欄 国際出願の不備
- ☐ 第VIII欄 国際出願に対する意見

2. 今後の手続き

国際予備審査の請求がされた場合は、出願人がこの国際調査機関とは異なる国際予備審査機関を選択し、かつ、その国際予備審査機関がPCT規則66.1の2(b)の規定に基づいて国際調査機関の見解書を国際予備審査機関の見解書とみなさない旨を国際事務局に通知していた場合を除いて、この見解書は国際予備審査機関の最初の見解書とみなされる。

この見解書が上記のように国際予備審査機関の見解書とみなされる場合、様式PCT/ISA/220を送付した日から3月又は優先日から22月のうちいずれか遅く満了する期限が経過するまでに、出願人は国際予備審査機関に、適当な場合は補正書とともに、答弁書を提出することができる。

さらなる選択肢は、様式PCT/ISA/220を参照すること。

3. さらなる詳細は、様式PCT/ISA/220の備考を参照すること。

見解書を作成した日

19.01.2006

名称及びあて先

日本国特許庁 (ISA/JP)

郵便番号100-8915

東京都千代田区霞が関三丁目4番3号

特許庁審査官 (権限のある職員)

久保田 昌晴

電話番号 03-3581-1101 内線 3521

5E

4230

様式PCT/ISA/237 (表紙) (2005年4月)

第I欄 見解の基礎

1. 言語に関し、この見解書は以下のものに基づき作成した。

☒ 出願時の言語による国際出願

☐ 出願時の言語から国際調査のための言語である _____ 語に翻訳された、この国際出願の翻訳文
(PCT規則12.3(a)及び23.1(b))

2. この国際出願で開示されかつ請求の範囲に係る発明に不可欠なヌクレオチド又はアミノ酸配列に関して、
以下に基づき見解書を作成した。

a. タイプ ☐ 配列表

☐ 配列表に関連するテーブル

b. フォーマット ☐ 紙形式

☐ 電子形式

c. 提出時期 ☐ 出願時の国際出願に含まれていたもの

☐ この国際出願と共に電子形式により提出されたもの

☐ 出願後に、調査のために、この国際調査機関に提出されたもの

3. ☐ さらに、配列表又は配列表に関連するテーブルを提出した場合に、出願後に提出した配列若しくは追加して提出した配列が出願時に提出した配列と同一である旨、又は、出願時の開示を超える事項を含まない旨の陳述書の提出があった。

4. 補足意見：

第V欄 新規性、進歩性又は産業上の利用可能性についてのPCT規則43の2.1(a)(i)に定める見解、
それを裏付ける文献及び説明

1. 見解

新規性 (N)	請求の範囲	4、8、12	有
	請求の範囲	1-3、5-7、9-11	無
進歩性 (IS)	請求の範囲		有
	請求の範囲	1-12	無
産業上の利用可能性 (IA)	請求の範囲	1-12	有
	請求の範囲		無

2. 文献及び説明

文献1 : JP 2001-22499 A (日本電信電話株式会社) 2001.01.26, 特許請求の範囲,
段落【0012】, 段落【0081】 - 【0083】, 第1図, 第9図 (ファミリーなし)
文献2 : 鈴木由里子, 小林稔, 石橋聡, 無拘束なインタフェースを目指した風圧による
力覚提示方式, 情報処理学会論文誌, Vol. 43 No. 12, 2002. 12. 15, P. 3643-3652

請求の範囲1、5、9

請求の範囲1、5、9に係る発明は、国際調査報告で引用された文献1または文献2により新規性を有さない。

文献1には、ラッパ形状または凹形面の送風受信部に風圧を与えることで操作者に力覚を提示することが記載されている。

文献2には、平面、凹形面または凸形面の風受容器に風圧を与えることで操作者に力覚を提示することが記載されている。

そして、ラッパ形状、凹形面または凸形面の送風受信部（風受容器）が、中心部から外側に向けて送風受信部の軸線に対して傾斜した形状となっているのは明らかである。

更に、文献2には、空気の噴出方向と風受容器との角度が斜めになると、空気の噴出方向に垂直な方向の成分を含んだ力が発生することも記載されている。そして、平面形状の風受容器を斜めに取り付けた場合も、風受容器は、中心部から外側に向けて風受容体の軸線に対して傾斜した形状となっている。

請求の範囲2、6、10

請求の範囲2、6、10に係る発明は、国際調査報告で引用された文献1により新規性を有さない。

文献1には、送風受信部の面積、角度または形状を制御することで、受け止める風圧を制御することが記載されている。

第VI欄 ある種の引用文献

1. ある種の公表された文書(PCT規則43の2.1及び70.10)

出願番号 特許番号	公知日 (日. 月. 年)	出願日 (日. 月. 年)	優先日 (有効な優先権の主張) (日. 月. 年)
JP 2005-4580 A 「P, X」	06. 01. 2005	13. 06. 2003	

2. 書面による開示以外の開示(PCT規則43の2.1及び70.9)

書面による開示以外の開示の種類	書面による開示以外の開示の日付 (日. 月. 年)	書面による開示以外の開示に言及している 書面の日付 (日. 月. 年)

補充欄

いずれかの欄の大きさが足りない場合

第 V 欄の続き

請求の範囲 3、7、11

請求の範囲 3、7、11に係る発明は、国際調査報告で引用された文献 1 または文献 2 により新規性を有さない。

文献 1、文献 2 には、仮想オブジェクトを含む仮想空間を表示することが記載されている。

請求の範囲 4、8、12

請求の範囲 4、8、12に係る発明は、国際調査報告で引用された文献 2 により進歩性を有さない。

文献 2 には、空気を噴出するノズルをマトリクス状に配置し、各ノズルから噴出する空気を制御することで所望の力覚を提示することが記載されている。

ここで、文献 2 に記載された発明において、ノズルから風受容器の中心に向かう方向と風受容器に与えようとする力の方向との角度差が所定の値以下となるノズルを選択することは、当業者が行う設計的事項である。

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2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP

Authorized officer

Facsimile No.

Telephone No.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/020026

Box No. I

Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.



This opinion has been established on the basis of a translation from the original language into the following language

_____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material



a sequence listing



table(s) related to the sequence listing

b. format of material



in written format



in computer readable form

c. time of filing/furnishing



contained in the international application as filed.



filed together with the international application in computer readable form.



furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/JP2005/020026

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement			
Novelty (N)	Claims	4, 8, 12	YES
	Claims	1-3, 5-7, 9-11	NO
Inventive step (IS)	Claims		YES
	Claims	1-12	NO
Industrial applicability (IA)	Claims	1-12	YES
	Claims		NO
2. Citations and explanations:			
<p>Document 1: JP, 2001-22499, A (Nippon Telegraph and Telephone Corporation), 26 January, 2001 (26.01.01), the claims, paragraphs [0012] and [0081]-[0083], Figs. 1 and 9 (Family: none)</p> <p>Document 2: Yuriko Suzuki, Minoru Kobayashi, Satoshi Ishibashi, "Mukosoku na Interface o Mezashita Fuatsu ni yoru Rikikaku Teiji Hoshiki", Transactions of Information Processing Society of Japan, Vol. 43, No. 12, 15 December, 2002 (15.12.02), pages 3643-3652</p> <p>Claims 1, 5 and 9</p> <p>The subject matters of claims 1, 5 and 9 do not appear to be novel in view of document 1 or 2 cited in the ISR.</p> <p>Document 1 describes that a wind pressure is given to a flared or concave blast receiving section to present a force sense to an operator.</p> <p>Document 2 describes that a wind pressure is given to a flat, concave or convex wind receiving vessel to present a force sense to an operator.</p> <p>It is apparent that the flared, concave or convex blast receiving section (wind receiving vessel) is inclined with respect to the axis line of the blast receiving section as going from the center toward the outside.</p> <p>Further, document 2 also describes that when the direction of the jetting of air is inclined with respect to the wind receiving vessel, a force including a vertical component is produced in the direction of the jetting of air. When the flat wind receiving vessel is attached aslant, the wind receiving vessel is inclined with respect to the axis line of the wind receiving vessel as going from the center toward the outside.</p> <p>Claims 2, 6 and 10</p> <p>The subject matters of claims 2, 6 and 10 do not appear to be novel in view of document 1 cited in the ISR.</p> <p>Document 1 describes that the area, angle or shape of the blast receiving section is controlled to control the wind pressure received.</p> <p>Claims 3, 7 and 11</p> <p>The subject matters of claims 3, 7 and 11 do not appear to be novel in view of document 1 or 2 cited in the ISR.</p> <p>Documents 1 and 2 describe that a virtual space including a virtual object is displayed.</p> <p>Claims 4, 8 and 12</p> <p>The subject matters of claims 4, 8 and 12 do not appear to be novel in view of document 2 cited in the ISR.</p> <p>Document 2 describes that nozzles for jetting air are arranged in a matrix form, and air jetted</p>			

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/020026

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement

from each nozzle is controlled to present a desired force sense.

It is a matter of design variation for a person skilled in the art to select nozzles with which a difference in angle between the direction of extending from the nozzle toward the center of the wind receiving vessel and the direction of a force to be given to the wind receiving vessel is equal to or less than a predetermined value.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/020026

Box No. VI Certain documents cited

1. Certain published documents (Rule 43bis.1 and 70.10)

Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
JP 2005-4580 A [P, X]	06.01.2005	13.06.2003	

2. Non-written disclosures (Rule 43bis.1 and 70.9)

Kind of non-written disclosure	Date of non-written disclosure (day/month/year)	Date of written disclosure referring to non-written disclosure (day/month/year)
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特許協力条約

発信人 日本国特許庁 (国際調査機関)

REC'D 02 FEB 2006

WIPO

PCT

代理人

伊東 忠彦

様

あて名

〒150-6032

日本国東京都渋谷区恵比寿4丁目20番3号 恵比寿ガーデンプレイスタワー32階

PCT

国際調査機関の見解書

(法施行規則第40条の2)

[PCT規則43の2.1]

発送日

(日.月.年)

31.01.2006

出願人又は代理人

の書類記号 NT05005PCT-

今後の手続きについては、下記2を参照すること。

国際出願番号

PCT/J P 2005/020026

国際出願日

(日.月.年) 31.10.2005

優先日

(日.月.年) 13.12.2004

国際特許分類 (IPC) Int.Cl. G06F3/01 (2006.01)

出願人 (氏名又は名称)

日本電信電話株式会社

1. この見解書は次の内容を含む。

- ☒ 第I欄 見解の基礎
- ☐ 第II欄 優先権
- ☐ 第III欄 新規性、進歩性又は産業上の利用可能性についての見解の不作成
- ☐ 第IV欄 発明の単一性の欠如
- ☒ 第V欄 PCT規則43の2.1(a)(i)に規定する新規性、進歩性又は産業上の利用可能性についての見解、それを裏付けるための文献及び説明
- ☒ 第VI欄 ある種の引用文献
- ☐ 第VII欄 国際出願の不備
- ☐ 第VIII欄 国際出願に対する意見

2. 今後の手続き

国際予備審査の請求がされた場合は、出願人がこの国際調査機関とは異なる国際予備審査機関を選択し、かつ、その国際予備審査機関がPCT規則66.1の2(b)の規定に基づいて国際調査機関の見解書を国際予備審査機関の見解書とみなさない旨を国際事務局に通知していた場合を除いて、この見解書は国際予備審査機関の最初の見解書とみなされる。

この見解書が上記のように国際予備審査機関の見解書とみなされる場合、様式PCT/ISA/220を送付した日から3月又は優先日から22月のうちいずれか遅く満了する期限が経過するまでに、出願人は国際予備審査機関に、適当な場合は補正書とともに、答弁書を提出することができる。

さらなる選択肢は、様式PCT/ISA/220を参照すること。

3. さらなる詳細は、様式PCT/ISA/220の備考を参照すること。

見解書を作成した日

19.01.2006

名称及びあて先

日本国特許庁 (ISA/J P)

郵便番号100-8915

東京都千代田区霞が関三丁目4番3号

特許庁審査官 (権限のある職員)

久保田 昌晴

電話番号 03-3581-1101 内線 3521

5E

4230

様式PCT/ISA/237 (表紙) (2005年4月)

第 I 欄 見解の基礎

1. 言語に関し、この見解書は以下のものに基づき作成した。

- ☒ 出願時の言語による国際出願
☐ 出願時の言語から国際調査のための言語である _____ 語に翻訳された、この国際出願の翻訳文
(PCT規則12.3(a)及び23.1(b))

2. この国際出願で開示されかつ請求の範囲に係る発明に不可欠なヌクレオチド又はアミノ酸配列に関して、
以下に基づき見解書を作成した。

- a. タイプ ☐ 配列表
☐ 配列表に関連するテーブル
- b. フォーマット ☐ 紙形式
☐ 電子形式
- c. 提出時期 ☐ 出願時の国際出願に含まれていたもの
☐ この国際出願と共に電子形式により提出されたもの
☐ 出願後に、調査のために、この国際調査機関に提出されたもの

3. ☐ さらに、配列表又は配列表に関連するテーブルを提出した場合に、出願後に提出した配列若しくは追加して提出した配列が出願時に提出した配列と同一である旨、又は、出願時の開示を超える事項を含まない旨の陳述書の提出があった。

4. 補足意見：

第V欄 新規性、進歩性又は産業上の利用可能性についてのPCT規則43の2.1(a)(i)に定める見解、
それを裏付ける文献及び説明

1. 見解

新規性 (N)	請求の範囲	4、8、12	有
	請求の範囲	1-3、5-7、9-11	無
進歩性 (IS)	請求の範囲		有
	請求の範囲	1-12	無
産業上の利用可能性 (IA)	請求の範囲	1-12	有
	請求の範囲		無

2. 文献及び説明

文献1：JP 2001-22499 A (日本電信電話株式会社) 2001.01.26, 特許請求の範囲,
段落【0012】, 段落【0081】 - 【0083】, 第1図, 第9図 (ファミリーなし)
文献2：鈴木由里子, 小林稔, 石橋聡, 無拘束なインタフェースを目指した風圧による
力覚提示方式, 情報処理学会論文誌, Vol. 43 No. 12, 2002. 12. 15, P. 3643-3652

請求の範囲1、5、9

請求の範囲1、5、9に係る発明は、国際調査報告で引用された文献1または文献2により新規性を有さない。

文献1には、ラッパ形状または凹形面の送風受信部に風圧を与えることで操作者に力覚を提示することが記載されている。

文献2には、平面、凹形面または凸形面の風受容器に風圧を与えることで操作者に力覚を提示することが記載されている。

そして、ラッパ形状、凹形面または凸形面の送風受信部 (風受容器) が、中心部から外側に向けて送風受信部の軸線に対して傾斜した形状となっているのは明らかである。

更に、文献2には、空気の噴出方向と風受容器との角度が斜めになると、空気の噴出方向に垂直な方向の成分を含んだ力が発生することも記載されている。そして、平面形状の風受容器を斜めに取り付けた場合も、風受容器は、中心部から外側に向けて風受容体の軸線に対して傾斜した形状となっている。

請求の範囲2、6、10

請求の範囲2、6、10に係る発明は、国際調査報告で引用された文献1により新規性を有さない。

文献1には、送風受信部の面積、角度または形状を制御することで、受け止める風圧を制御することが記載されている。

第VI欄 ある種の引用文献

1. ある種の公表された文書(PCT規則43の2.1及び70.10)

出願番号 特許番号	公知日 (日. 月. 年)	出願日 (日. 月. 年)	優先日 (有効な優先権の主張) (日. 月. 年)
JP 2005-4580 A 「P, X」	06. 01. 2005	13. 06. 2003	

2. 書面による開示以外の開示(PCT規則43の2.1及び70.9)

書面による開示以外の開示の種類	書面による開示以外の開示の日付 (日. 月. 年)	書面による開示以外の開示に言及している 書面の日付 (日. 月. 年)

補充欄

いずれかの欄の大きさが足りない場合

第 V 欄の続き

請求の範囲 3、7、11

請求の範囲 3、7、11に係る発明は、国際調査報告で引用された文献 1 または文献 2 により新規性を有さない。

文献 1、文献 2 には、仮想オブジェクトを含む仮想空間を表示することが記載されている。

請求の範囲 4、8、12

請求の範囲 4、8、12に係る発明は、国際調査報告で引用された文献 2 により進歩性を有さない。

文献 2 には、空気を噴出するノズルをマトリクス状に配置し、各ノズルから噴出する空気を制御することで所望の力覚を提示することが記載されている。

ここで、文献 2 に記載された発明において、ノズルから風受容器の中心に向かう方向と風受容器に与えようとする力の方向との角度差が所定の値以下となるノズルを選択することは、当業者が行う設計的事項である。

From the INTERNATIONAL BUREAU

PCTNOTIFICATION CONCERNING
SUBMISSION OR TRANSMITTAL
OF PRIORITY DOCUMENT

To:

ITOHI, Tadahiko
32nd Floor, Yebisu Garden Place Tower, 20-3,
Ebisu 4-chome
Shibuya-ku, Tokyo 1506032
JAPON

(PCT Administrative Instructions, Section 411)

Date of mailing (day/month/year) 13 January 2006 (13.01.2006)	
Applicant's or agent's file reference NT05005PCT--	IMPORTANT NOTIFICATION
International application No. PCT/JP2005/020026	International filing date (day/month/year) 31 October 2005 (31.10.2005)
International publication date (day/month/year) Not yet published	Priority date (day/month/year) 13 December 2004 (13.12.2004)
Applicant NIPPON TELEGRAPH AND TELEPHONE CORPORATION et al	

- By means of this Form, which replaces any previously issued notification concerning submission or transmittal of priority documents, the applicant is hereby notified of the date of receipt by the International Bureau of the priority document(s) relating to all earlier application(s) whose priority is claimed. Unless otherwise indicated by the letters "NR", in the right-hand column or by an asterisk appearing next to a date of receipt, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
- (If applicable)* The letters "NR" appearing in the right-hand column denote a priority document which, on the date of mailing of this Form, had not yet been received by the International Bureau under Rule 17.1(a) or (b). Where, under Rule 17.1(a), the priority document must be submitted by the applicant to the receiving Office or the International Bureau, but the applicant fails to submit the priority document within the applicable time limit under that Rule, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
- (If applicable)* An asterisk (*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b) (the priority document was received after the time limit prescribed in Rule 17.1(a) or the request to prepare and transmit the priority document was submitted to the receiving Office after the applicable time limit under Rule 17.1(b)). Even though the priority document was not furnished in compliance with Rule 17.1(a) or (b), the International Bureau will nevertheless transmit a copy of the document to the designated Offices, for their consideration. In case such a copy is not accepted by the designated Office as the priority document, Rule 17.1(c) provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

Priority date	Priority application No.	Country or regional Office or PCT receiving Office	Date of receipt of priority document
13 December 2004 (13.12.2004)	2004-359772	JP	13 December 2005 (13.12.2005)

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Authorized officer

Kuwahara Yoshiko

Facsimile No. +41 22 338 82 70

Facsimile No. +41 22 338 90 90

Telephone No. +41 22 338 91 76

Form PCT/IB/304 (January 2004)

CPSEC77R